Electrically Heated, Vaporizing Pressure Regulator Pressure Reducing, Stainless Steel



Value Proposition:

The AVR4 Series regulator is designed to heat and/or vaporize a gas or liquid sample before entering an analyzer system.

This unique design allows the user to disassemble the regulator and heat transfer components for complete cleaning and repair of the unit, thus reducing expensive replacement costs and down time.



Contact Information:

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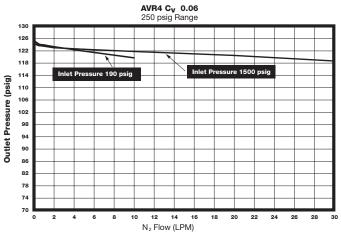


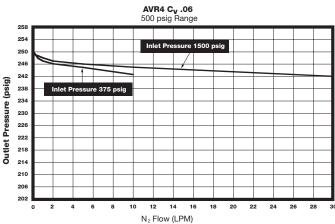
Product Features:

- Ultra low internal volume
- CSA, CE-ATEX certified
- Cleaned for O₂ service is standard
- Convoluted Hastelloy C-22® diaphragm for superior strength and corrosion resistance provides outlet pressure stability with changes in flow
- Field serviceable heat transfer element
- TCO (Thermal cut-out) is standard for all heat ranges
- Integral diaphragm stop provides additional measure of safety
- Express Service Program available noted green italic print

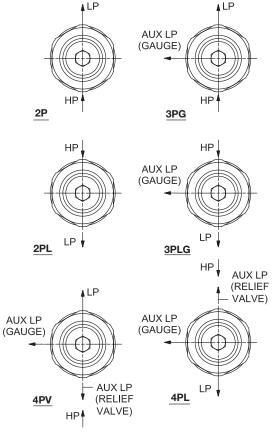
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Flow Curves





Porting Configurations



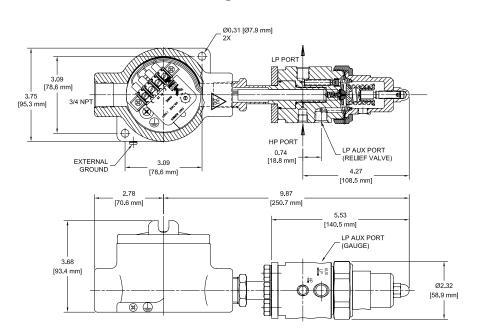
ATEX Related Drawing:

Revision Control Per 54099313

Reference: ATEX Schedule Drawing 54013150

Reference: CSA File # LR99181

Dimensional Drawing



Ordering Information

Build an AVR4 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations

Blue = Extended Lead Time Configurations *Green Italic* = Express Service Program (ESP) For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo

Sample: AVR4

Finished Order: AVR4SK1120DLX3PGRV

Body Material

= 316L Stainless Steel

H = Hastelloy C-22®

M = Monel®

Seat Material

K = PCTFE $P = PEEK^{TM}$

V = Vespel®

Pressure Range

0 = 0 - 10 psig (max inlet 250 psig)

= 1 - 30 psiq

= 2 - 60 psig

= 3 - 100 psig

4 = 10 - 250 psig

= 20 - 500 psig

Voltage

120 = 120V240 = 240V **Heater Wattage**

= 40

= 100

D = 150E = 200

Temperature Controller

= 75°F to 220°F 24°C - 104°C = 220°F to 380°F 104°C - 193°C

Outlet Gauge

03 = 0 - 30 psig

OL = 0 - 60 psig

01 = 0 - 100 psig= 0 - 400 psig

= 0 - 600 psiq

= No Gauge

Porting Configuration

2PL = 2 Port Reverse Entry

3PG = 3 Port Relief Valve or Gauge

Port

3PLG = 3 Port Reverse Entry Relief Valve or Gauge Port

= 4 Port Relief Valve and Gauge Port

= 4 Port Reverse Entry Relief

Valve and Gauge Port High Pressure port standard is 1/8" NPT

Female. 1/4" NPT Female on auxillary outlet ports.

Optional Features

RV = Relief Valve

SL1 = SilcoNert™ 1000 Coating on wetted metallic components only. Does not include gauges or relief

valves.

Additional configurations available upon request

Note: Veriflo reserves the right to plug NPT ports. If a true ported body is required, please contact Customer Service.

Product Cer	tifications
North American Certification	CLASS I GROUPS A,B,C & D US LR99181
European Union Certification	© © 0344 Ex II 2 G ExdIIC T3 KEMA 03ATEX2359

Specifications

Materials of Construction		
Wetted		
Body Options	316L Stainless Steel (std), Monel® or Hastelloy C-22®	
Compression Member	Inconel® 625	
Diaphragm	Hastelloy C-22®	
Poppet	Hastelloy C-276®	
Poppet Spring	Inconel® X750	
Seat Options	PCTFE (std), PEEK™ or Vespel®	
Carrier Options	316L Stainless Steel (std) or Hastelloy C-22®	
Heater Seal	PEEK™	
O-ring Back-up	FKM	
Non-wetted		
Cap	303 Stainless Steel	
Nut	316L Stainless Steel	
Condulet	Cast Iron Alloy and Aluminum	
Operating Conditions		
Maximum Inlet	3,500 psig (241 barg) or 250 psig (17.2 barg) for 10 psig range	
Outlet Options	0-10 psig (0.7 barg), 1-30 psig (2 barg), 2-60 psig (4 barg), 3-100 psig (7 barg), 10-250 psig (17 barg), 20-500 psig (35 barg)	
Temperature	based upon seat option	
PCTFE	150°F (66°C)	
PEEK™	275°F (135°C)	
Vespel®	500°F (260°C)	

Functional Performance	
Design	
Burst Pressure	10,500 psig (724 barg)
Proof Pressure	5,250 psig (362 barg)
Flow Capacity	C _V 0.06 Nominal
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Internal Volume	
High Pressure Inlet	0.57 cc
Overall	4.6 cc
Approx. Weight	8 lbs. (2.0 kg)
Electrical Specifications	
Power Requirements	120V or 240V, 50/60 Hz
Heater Wattage	40, 100, 150 or 200 watt
Temperature	75°F to 220°F or 215°F to 380°F
Controller	(24°C to 105°C or 102°C to 194°C)
(Proportional)	Ranges are approximate
Condulet	Crouse Hinds, UL and CSA listed Class 1, Groups A, B, C, D; Class 2, Groups E, F, G

For additional information on materials of construction, functional performance and operating conditions, see Regulator Technical Bulletin.

OFFER OF SALE:

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